

Title (en)
METHOD OF PRODUCING MODIFIED VINYL ALCOHOL POLYMER

Title (de)
VERFAHREN ZUR HERSTELLUNG VON MODIFIZIERTEM VINYLALKOHOLPOLYMER

Title (fr)
PROCÉDÉ DE PRODUCTION D'UN POLYMÈRE D'ALCOOL VINYLIQUE MODIFIÉ

Publication
EP 3623395 A1 20200318 (EN)

Application
EP 18813658 A 20180606

Priority
• JP 2017114532 A 20170609
• JP 2018021758 W 20180606

Abstract (en)
Provided is a production method capable of producing a modified vinyl alcohol-based polymer with a high efficiency suitable as a dispersion stabilizing agent for obtaining fine resin particles which have a highly uniform particle size, higher plasticizer absorbability and proper bulk specific gravity, when subjecting a vinyl-based compound such as vinyl chloride to suspension polymerization. A method of producing a modified vinyl alcohol-based polymer having a formyl group at its terminal, including steps of: 1) subjecting a vinyl ester-based monomer to suspension polymerization in an aqueous medium in the presence of one or more halogenated methanes represented by general formulae (I) to (III) to obtain a vinyl ester-based polymer:
$$\text{H} < \text{sub} > 2 < / \text{sub} > \text{CX} < \text{sub} > 2 < / \text{sub} > \cdots \quad (\text{I}) \quad \text{HCX} < \text{sub} > 3 < / \text{sub} > \cdots$$

(II) $\text{CX} < \text{sub} > 4 < / \text{sub} > \cdots$ (III) 2) dissolving the vinyl ester-based polymer obtained in the step 1) in an alcoholic medium; and 3) adding an alkali to a solution of the vinyl ester-based polymer in the alcoholic medium, obtained in the step 2), to cause saponification reaction.

IPC 8 full level
C08F 8/12 (2006.01); **C08F 2/38** (2006.01); **C08F 18/04** (2006.01); **C09K 23/52** (2022.01)

CPC (source: EP)
C08F 2/18 (2013.01); **C08F 8/12** (2013.01); **C08F 118/08** (2013.01); **C08F 216/06** (2013.01)

C-Set (source: EP)
1. **C08F 8/12 + C08F 118/08**
2. **C08F 118/08 + C08F 2/18**
3. **C08F 118/08 + C08F 2/38**

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3623395 A1 20200318; **EP 3623395 A4 20200729**; **EP 3623395 B1 20240207**; JP 2019056128 A 20190411; JP 6491403 B1 20190327; JP 6513317 B2 20190515; JP WO2018225796 A1 20190627; WO 2018225796 A1 20181213

DOCDB simple family (application)
EP 18813658 A 20180606; JP 2018021758 W 20180606; JP 2018541444 A 20180606; JP 2019008085 A 20190121